The opinion in support of the decision being entered today was not written for publication and is not binding precedent of the Board.

Paper No. 15

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

Ex parte FRANK JOHN MUENCH, Jr., GORDON THOMAS BORCK and ALLEN LEROY JOHNSON

Application 09/240,712

ON BRIEF

Before HAIRSTON, FLEMING, and GROSS, Administrative Patent Judges.

FLEMING, Administrative Patent Judge.

DECISION ON APPEAL

This is a decision on appeal from the final rejection of claims 1 through 12 and 16 through 27.

The invention relates to a current limiting fuse. Figure 1 shows a cutaway side view of a current limiting fuse of the invention with two winding supports. See page 3, lines 31 through 32, of Appellants' specification. In particular, the

winding supports 105, 110 are contained in a cylindrical tube 135 that is sealed on each end by caps 140, 145. The caps 140, 145 are connected to plates 150 and 155 which are mounted to the ends of the winding supports 105, 110. See page 4, lines 28 through 32 of Appellants' specification. Appellants disclose on pages 6 and 7 of the specification that using a separate winding support for each element reduces problems associated with maintaining the separation between the elements in operation and in filling the fuse with silica sand. Furthermore, the winding support allows control and maintenance of the positioning needed for proper operation. See page 6, line 29, through page 7, line 5, of Appellants' specification. Furthermore, the end plates 145, 150 support and position the individual winding supports thereby fixing the winding supports 105 and 110 to prevent movement of the elements that could adversely affect the operation of the fuse. See page 7, lines 1 through 5, of Appellants' specification.

Representative claims 1 and 16 are reproduced as follows:

- 1. A high current fuse comprising:
- a housing;

a first electrically-conductive cap attached to a first end of the housing;

a second electrically-conductive cap attached to a second end of the housing;

at least two winding supports positioned in the housing, extending between the caps, and spaced from one another;

at least one electrically-conductive element wound around a first one of the winding supports and electrically connected to the caps; and

at least one electrically-conductive element wound around a second one of the winding supports and electrically connected to the caps;

wherein at least a portion of both of the two winding supports is defined by a single structure.

- 16. A high current fuse comprising;
- a housing defining a central longitudinal axis;
- a first electrically-conductive cap attached to a first end of the housing;
- a second electrically-conductive cap attached to a second end of the housing;
- at least two non-coaxial winding supports positioned in the housing spaced from one another and extending between the caps;
- at least one electrically-conductive element wound around a first one of the winding supports and electrically connected to the caps; and
- at least one electrically-conductive element wound around a second one of the winding supports and electrically connected to the caps;

wherein at least a portion of both of the two non-coaxial winding supports is defined by a single structure.

REFERENCES

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The references relied on by the Examiner are as follows:

Grzeczkowski	3,145,282	Aug.	18,	1964
Cameron	3,569,891	Mar.	9,	1971
Knapp, Jr.	3,962,666	Jun.	8,	1976

REJECTION AT ISSUE

Claims 1 through 4, 7 through 12, 16 through 21 and 24 through 27 stand rejected under 35 U.S.C. § 103 as being unpatentable over Grzeczkowski.

Claims 5 and 22 stand rejected under 35 U.S.C. § 103 as being unpatentable over Grzeczkowski in view of Knapp.

Claims 6 and 23 stand rejected under 35 U.S.C. § 103 as being unpatentable over Grzeczkowski in view of Knapp and Cameron.

Rather than repeat the arguments of Appellants or the Examiner, we make reference to the $briefs^1$ and answer for the respective details thereof.

¹Appellants filed an appeal brief on July 7, 2000. Appellants filed a reply brief on October 10, 2000. The Examiner mailed an office communication on November 30, 2001, stating the reply brief has been entered and considered.

OPINION

After a careful review, we will not sustain the Examiner's rejection of claims 1 through 12 and 16 through 27 under 35 U.S.C. § 103.

Appellants argue on page 4 of the brief that Grzeczkowski fails to teach or suggest "wherein at least a portion of both of the two winding supports is defined by a single structure" as recited in claim 1. Appellants also argue on page 6 of the brief that Grzeczkowski fails to teach or suggest "wherein at least a portion of both of the two non-coaxial winding supports is defined by a single structure" as recited in claim 16.

On page 3 of the final rejection, the Examiner admits that Grzeczkowski does not teach a single structure for providing a pair of winding supports as recited in claim 1. Similarly on page 4 of the final rejection, the Examiner admits that Grzeczkowski fails to teach that at least a portion of both of the two winding supports is defined by a single structure as recited in Appellants' claim 16. The Examiner takes official notice that it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the two winding supports into a single structure as an obvious design choice because it has been held by case law that forming one

piece in an article which has been formerly formed into two pieces and put together involves only routine skill in the art. The Examiner relies on Howard v. Detroit Stove Works, 150 U.S. 164 (1893). See pages 3 and 4, of the Examiner's final rejection. In the Examiner's answer, the Examiner maintains that Howard v. Detroit Stove Works holds that it is within one of design choice to form one piece of article which has formerly been formed into two pieces and putting them together involves only routine skill in the art. See pages 3 and 4 of the Examiner's answer.

In rejecting claims under 35 U.S.C. § 103, the Examiner bears the initial burden of establishing a prima facie case of obviousness. In re Oetiker, 977 F.2d 1443, 1445, 24 USPQ 1443, 1444 (Fed. Cir. 1992). See also In re Piasecki, 745 F.2d 1468, 1472, 223 USPQ 785, 788 (Fed. Cir. 1984). The Examiner can satisfy this burden by showing that some objective teaching in the prior art or knowledge generally available to one of ordinary skill in the art suggests the claimed subject matter. In re Fine, 837 F.2d 1071, 1074, 5 USPQ2d 1596, 1598 (Fed. Cir. 1988). Only if this initial burden is met does the burden of coming

forward with evidence or argument shift to the Appellants.

Oetiker, 977 F.2d at 1445, 24 USPQ at 1444. See also Piasecki,

745 F.2d at 1472, 223 USPQ at 788.

When determining obviousness, "the [E]xaminer can satisfy the burden of showing obviousness of the combination 'only by showing some objective teaching in the prior art or individual to combine the relevant teachings of the references.'" In re Lee, 277 F.3d 1338, 1343, 61 USPQ2d 1430, 1434 (Fed. Cir. 2002), citing In re Fritch, 972 F.2d 1260, 1265, 23 USPQ2d 1780, 1783 (Fed. Cir. 1992). "Broad conclusory statements regarding the teaching of multiple references, standing alone, are not 'evidence.'" In re Dembiczak, 175 F.3d 994, 999, 50 USPQ2d 1614, 1617. "Mere denials and conclusory statements, however, are not sufficient to establish a genuine issue of material fact."

Dembiczak, 175 F.3d at 999, 50 USPQ2d at 1617, citing McElmurry v. Arkansas Power & Light Co., 995 F.2d 1576, 1578, 27 USPQ2d 1129, 1131 (Fed. Cir. 1993).

"In reviewing the [E]xaminer's decision on appeal, the Board must necessarily weigh all of the evidence and arguments." In re

Oetiker, 977 F.2d at 1445, 24 USPQ2d at 1444. "[T]he Board must not only assure that the requisite findings are made, based on

evidence of record, but must also explain the reasoning by which the findings are deemed to support the agency's conclusion." In re Lee, 277 F.3d 1338, 1344, 61 USPQ2d 1430, 1434 (Fed. Cir. 2002). With these principles in mind, we commence review of the pertinent evidence and arguments of Appellants and Examiner.

Upon our view of the evidence, we find that the record fails to show any suggestion to lead one of ordinary skill in the art to make the modification as proposed by the Examiner. In particular, we note that the Examiner's assertion that this modification is a matter of design choice is only a conclusionary statement not based on genuine issue of material fact. In particular, we note that the claims all require a single structure for providing a pair of winding supports. This structure corresponds to elements 155 and 150 shown in figure 1. Furthermore, we note that this structure is not a nonfunctional limitation but indeed has a function. Appellants' specification discloses on pages 6 and 7 that the end plates 145 and 150 of the two winding supports 105 and 110 provide the function of maintaining the separation between the elements in

operation and filling the fuse with sand. In particular, the end plates 145 and 150 prevent the movement of the elements which would adversely affect the operation of the fuse.

Upon our view of Grzeczkowski, we find no evidence within Grzeczkowski to those skilled in the art that the winding supports need to be defined as a single structure so as to prevent movement of the winding supports. In fact, Grzeczkowski teaches just the contrary that the winding supports are separate elements not connected together. Therefore, we find that the Examiner has no substantial evidence that it was either known to one of ordinary skill in the art or suggested to one of ordinary skill in the art to modify the Grzeczkowski reference to obtain the invention as recited in Appellants' claims 1 and 16.

Appellants' reliance on Howard v. Detroit Stove Works for establishing a material fact is misplaced. In fact, our reviewing court has counseled the PTO that there are no per se rules. In In re Ochiai, 71 F.3d 1565, 1570, 37 USPQ2d 1127, 1132 (Fed. Cir. 1995) the Examiner had relied on case law for a general obvious rule. The Federal Circuit stated that no such per se rules exist. See Ochiai, 71 F.3d at 1570, 37 USPQ2d at 1132. Cir. 1995). The Court stated there is not "Durden"

obviousness rejections" or "Albertson obviousness rejections," but rather only section 103 obviousness rejections. *Id.* This was further explained by our predecessor Court by stating "[n]ecessarily it is facts appearing in the record, rather than prior decisions in and of themselves, which must support the legal conclusion of obviousness under 35 U.S.C. § 103." *In re Cofer*, 354 F.2d 664, 667, 148 USPQ 268, 271 (CCPA 1966).

In view of the foregoing, we will not sustain the rejection of claims 1 through 4, 7 through 12, 16 through 21 and 24 through 27 under 35 U.S.C. § 103 as being unpatentable over Grzeczkowski. In particular, we note that all the claims recite that at least a portion of both the winding supports system is defined by a single structure.

Now we will turn to the rejection of claims 5 and 22 under 35 U.S.C. § 103 as being unpatentable over Grzeczkowski in view of Knapp and claims 6 and 23 under 35 U.S.C. § 103 as being unpatentable over Grzeczkowski in view of Knapp and Cameron.

Upon our view of Knapp and Cameron, we fail to find that either reference teaches or suggests a single structure for providing a pair of winding supports as required by the claims. Therefore, we will not sustain these rejections as well.

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Therefore, we will not sustain the Examiner's decision in rejecting claims 1 through 12 and 16 through 27 under 35 U.S.C. § 103.

REVERSED

KENNETH W. HAIRSTON)
Administrative Patent Judge)
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) BOARD OF PATENT
MICHAEL R. FLEMING)
Administrative Patent Judge) APPEALS AND
)
) INTERFERENCES
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